



eBridge1PCR



Overview

eBridge1PCR is a single port EoC Receiver that transmits data and power over coax cable. eBridge1PCR generates PoE up the coax to an eBridge1PCT transceiver. The transceiver in turn delivers that PoE compliant power to an edge device/camera. This plug and play unit facilitates system upgrades from analog to IP utilizing existing legacy Coax and eliminates the costs and labor associated with installing new network cabling. Data transmission and power over the Coax is possible up to 457m in comparison to 100m Ethernet distance (CAT5e). A maximum range from head end to the edge device/camera is 657m taking into consideration that up to 100m of structured cable may be deployed from the receiver to the network switch and the transceiver to the edge device/camera.

Specifications

Agency Listings:

- UL/CUL Listed for Information Technology Equipment (UL 60950-1).
- CE approved.
- C-Tick compliant.

Input:

- 24VDC Class 2 power supply (polarity not observed) or 24VAC Class 2 plug-in transformer.

Power Consumption (under maximum load):

- 24VDC/1,000mA, 24VAC/900mA.

Ethernet:

- Connectivity: RJ45, auto-crossover.
- Wire type: 4-pair CAT5 or better structured cable.
- Distance: up to 100m.
- Speed: 10/100BaseT, half/full duplex, auto negotiation. PoE compliant to IEEE 802.3af (15W) delivered to camera by eBridge transceiver.
- Throughput is rated to pass 25mbps of data at distances up to 457m with proper headend equipment which supports Megapixel, HD720, HD1080.

Coax:

- Distance: up to 457m for power delivery of coax.
- Connectivity: BNC, RG-59/U or similar.

LED Indicators:

- Blue - Coax link connection.
- Green - PoE ON. Green - Power ON.
- Yellow and Green - (RJ45) IP Link status, 10/100Base-T/active.

Environmental:

- Operating Temperature:
 - 15W: -4°F to 113°F (-20°C to +45°C).
 - 30W for 24VDC: -4°F to 98.6°F (-20°C to +37°C).
 - 30W for 48VDC: -4°F to 113°F (-20°C to +45°C).

Environmental (cont'd):

- Storage Temperature: -4° to 158°F (-20° to 70°C).
- Relative humidity: 85%, +/-5%, non-condensing.
- Operating Altitude: -1000 to 6,561.679 ft. (-304.8 to 2000m).

Electrical:

- BTU/Hr.:
 - 24VDC: 12.28 BTU/Hr.
 - 24VAC: 11.1 BTU/Hr.

Functions:

- Auto detection and protection of legacy non-PoE cameras/devices.

Applications:

- Retrofit digital IP cameras in an analog CCTV installation.
- Works with Megapixel, HD720, HD1080 and VGA (SD) cameras.
- Extend Network link distance in an industrial environment.
- Upgrade deployed CCTV Coax to a digital network in Retail, Hospitality, Arenas, Casinos, Airports, Schools, Hospitals, Transportation, etc.

Accessories:

Transceivers:

- **eBridge1PCT:** Single port ethernet/PoE transceiver.
- **eBridge1PCTX:** Single port ethernet/PoE or PoE+ transceiver.

Mechanical:

- Lightweight molded compact insulated housing.
- Dimensions (W x L x H approx.): 3.5" x 4.375" x 1" (88.89mm x 111.125mm x 25.4mm)
- Product weight: 0.275 lbs. (0.125 kg).
- Shipping weight: 1 lb. (0.45 kg).

Agency Approvals



UL/CUL Listed for Information Technology Equipment (UL 60950-1).



European Conformity



C-Tick Compliant Z1409

eBridge Plus Receiver / eBridge Plus Transceiver Compatibility:

Ethernet and Generated Power over Coax Solutions.

